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Supplementary Material for Teaching Geography in Elementary Schools

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SUPPLEMENTARY MATERIAL FOR TEACHING GEOGRAPHY IN ELEMENTARY SCHOOLS

By J. W. Hubbard

Normal School, Worcester, Massachusetts

DESCRPTIONS in text books on geography are so brief and so lacking in detail that the subject needs enrichment by much supplementary study. Geography may be viewed from many angles. It may be interpreted by the study of various kinds of maps—political, physical, and relief. The distribution of cities, products, races, industries, transportation lines, climate, and surface features may be expressed by the pupil through the outline map. Books of travel, geographical readers and an unlimited wealth of illustrations available everywhere give broad views of life in all parts of the world.

Many teachers and schools would avail themselves of material that will give form and life to the skeleton of the text if they knew what to select for different grades and where it can be obtained. To furnish such information is the purpose of this paper. No claim is made that the lists given are complete or even that the items mentioned are the best of their kind; they have been selected merely as valuable sources, that have been used and tested in this school.

Books

Explanation of Abbreviations: Ed. Pub. Co.=Educational Publishing Co., Boston; Ginn=Ginn and Co., New York or Boston; A. B. Co.=American Book Co., New York; R. McN.=Rand, McNally and Co., Chicago; Appleton=D. Appleton and Co., New York; Macmillan=The Macmillan Co., New York; S. B. & Co.=Silver, Burdette & Co., Boston; H. M. & Co.=Houghton, Mifflin and Co., New York; Holt=Henry Holt and Co., New York.

A teacher ought to be provided with enough duplicate sets of books to give all pupils a chance to use them.

Schools are given a liberal discount from the list prices which are here quoted.

Grades III and IV

Home Geography for Primary Grades, by H. W. Fairbanks. Ed. Pub. Co. 60c.

Earth and Sky, by J. H. Stickney. Ginn. 40c.

Geographical Nature Studies, by Frank O. Payne. A. B. Co. 25c.

Little studies in climate such as "The air," "Where the rain comes from," "The seasons." Other topics are, "Stream systems," "Water in the ground," "Pools, ponds, and lakes." Leading occupations are also treated. Supplementary questions for the pupil to answer and suggestions to the teacher make this little book very valuable.

The Four Wonders, by Elnora E. Shillig. R. McN. 50c.

Tells about the production of cotton, wool, linen, and silk. The many illustrations are very fine and the style is well adapted to third grade children.

Eskimo Stories, by Mary E. Smith. R. McN. 40c.

Simple and well illustrated. This book describes all features of eskimo life from a child's point of view. The pictures of games, house, food, clothing, and weapons appeal to children.

Children of the Palm Lands, by Alice E. Allen. Ed. Pub. Co. 50c.

A simple account of the hot belt products including bananas, spices, tea, coffee, chocolate, and dates.

Big People and Little People of Other Lands, by Edward R. Shaw, A. B. Co. 30c.

Very pleasing descriptions of interesting people in India, Japan, Philippines, Africa, Russia, Holland, and Arabia. The many illustrations are excellent.

Seven Little Sisters, by Jane Andrews. Ginn. 50c.

These simple stories of extreme types of customs and environment introduce children to the life of people in the world at large.

Each and All, by Jane Andrews. Ginn. 50c.

A companion volume to the former book. It tells more stories about the same little people.

Grades V and VI

Bud and Bamboo, by John S. Thompson. Appleton. 30c.

In this story a boy and his sister visit China and see games, pets, a school, a silk farm, a rice field, a pagoda, examinations, a New Year's festival, and a funeral.

Children of Japan, by C. Campbell Brown. Frank H. Revell Co., N. Y. 60c.

Describes Japanese children in their homes and at school; their games, festivals, and superstitions. The same author has written other volumes about the children of India, Africa, Arabia, China, Egypt, Ceylon, Persia, and Borneo.

Stories of China, by Mary L. Pratt. Ed. Pub. Co. 50c.

Stories of India, by the same author. 50c.

Among other things this book describes the religions of India in a way that can easily be understood by children.

Peeps at Many Lands, by John Finnemore. Macmillan. 50c.

The complete series consists of about thirty volumes covering nearly the whole world. Each book contains twelve full page illustrations in color. For list of titles write to the publishers.

Youth's Companion Series, by M. A. L. Lane. Ginn.

The Wide World. 30c.

Some of the titles are, "A school in Cairo," "Some South American games," "Boys and girls of Paris."

Northern Europe. 30c.

Describes "A Russian village," "Scenes in Belgium," "A glimpse of Switzerland," "A Holland dairy," and other places.

Under Sunny Skies (Mediterranean countries) 30c.

Toward the Rising Sun (Asia and eastern lands) 30c.

Strange Lands Near Home (Canada, Mexico, South America) 30c.

Little People Everywhere Series, 12 Volumes, by Etta B. McDonald and Julia Dalrymple. Little, Brown & Co., Boston, Mass. 60 cents each.

Manuel in Mexico

Ume' San in Japan

Rafael in Italy

Kathleen in Ireland

Colette in France

Fritz in Germany

Gerda in Sweden

Boris in Russia

Betty in Canada

Donald in Scotland

Martha in Holland

Hassan in Egypt

Josefa in Spain

Each of these little volumes is a story of children's experiences at home and in other parts of the land in which the scene is laid. In telling the story the most picturesque customs of the people in the city and in the country are introduced. The series is a most valuable reference for getting vivid conceptions of the spirit and atmosphere of the places described.

Around the World—Book Four, by Clarence F. Carroll. S. B. & Co. 45c.
Descriptions of the United States.

Around the World—Book Five, by the same author. 60c.

The British Empire and Italy including all their colonies are treated rather fully but in a simple style.

A Series of Industrial Readers, by James F. Chamberlain. Macmillan. 40 cents each.

How We Are Clothed

How We Are Sheltered

How We Are Fed

How We Travel

Descriptions and illustrations of plants and other sources of clothing, food, and shelter, used by people in various parts of the world. A simple and very brief account of some processes of manufacturing is usually given.

Stories Retold from St. Nicholas, Century Co., New York, 65 cents each.

Western Frontier Stories	Stories of Strange Sights
Stories of the Great Lakes	Sea Stories
Island Stories	Southern Stories

These stories are not strictly geographical but they are good reading, as the scenes and characters are typical of distinct regions.

Grades VII and VIII

Carpenter's Geographical Readers, by Frank G. Carpenter. A. B. Co. 60c each.

North America	Asia
South America	Africa
Europe (70 cents)	Australia and the Islands of the Sea

Many geographical readers, like our text books, are so meager and condensed that they make very little impression upon the pupil, but this standard series of readers gives full descriptions of every phase of life in the countries included. Excellent maps enable the pupil to follow the route which the journeys describe.

Type Studies from United States Geography, by Charles A. McMurry. Macmillan. 50c.

Full and rich descriptions. The author suggests that these type studies may be run parallel with the regular lessons to enrich special and important topics. The book has chapters entitled "The Hudson river," "Cod-fisheries," "Lake Superior," "A cattle ranch," "A trip on the lower Mississippi," "An orange grove in Florida."

Representative Cities of the United States, by Caroline W. Hotchkiss. H. M. & Co. 60c.

The cities selected represent great centers of industry and life. Just enough history of the city is given to explain how it is a response to its physical and economic environment. These descriptions are not travel sketches, but are geographical studies, by an experienced teacher who visited and studied every city which she describes. In connection with each city suggestions are given for additional investigation.

Asia, by Ellsworth Huntington, R. M. & Co. 75c.

This is the first book of a new series of readers now being issued. It is a very attractive and readable volume; the information is up to date and is thoroughly reliable.

South America, by Isaiah Bowman. R. M. & Co. 75c.

A second book of the same series also delightfully written. The author describes the country from personal experience acquired in extensive travels.

Readers on Commerce and Industry, by Frank G. Carpenter. A. B. Co.

How the World is Fed, 60c.

How the World is Housed, 60c.

How the World is Clothed. 60c.

The children are taken on tours to the great food centers of the earth, to the factories, the farms, the forests, and the seas. The journeys describe localities, trade routes, transportation, and commerce.

Great American Industries, by W. F. Rocheleau. A. Flannigan & Co., Chicago.

Transportation. 50c.

A valuable reference on roads, inland waterways, and railways giving their history, showing how safety appliances are used, and illustrating many forms of conveyance. The last chapter on aerial navigation tells about the kinds of air craft now in use.

Products of the Soil. 50c.

Cereals, cotton, lumber, sugar, wheat, and fruit.

Manufacturing. 50c.

Minerals. 50c.

Information on minerals is rather difficult to obtain elsewhere in such a simple form.

Industrial Studies—United States, by Nellie B. Allen. Ginn. 65c.

Industrial Studies—Europe, by the same author. 65c.

The suggestions, at the end of each chapter, for further study are a valuable feature.

Stories of Industry, 2 Vol., by Chase and Clow. Ed. Pub. Co. \$1.20.

TEACHERS' REFERENCE BOOKS

The World's Commercial Products, by W. G. Freeman and S. E. Chandler. Ginn. \$2.50.

This is an expensive book but is well worth the money to any school. Its great attraction in addition to its completeness is its twelve beautiful colored plates and its very large number of splendid full-page pictures made from actual photographs.

The World Almanac and Encyclopedia (annual) New York World, N. Y. City. 35c.

Industrial and Commercial Geography, by J. Russell Smith. Holt. \$4.00.

This is a superb work, very complete, covering the whole field and having many fine illustrations, maps, and diagrams.

From Trail to Railway, by Albert P. Brigham. Ginn. 50c.

The author has given an historical account of the great transportation lines which cross the Appalachian Mountains; shows how surface features have determined routes of travel.

Geographical Influences in American History, by Albert P. Brigham. Ginn. \$1.25.

Points out how American history has been influenced by geography.

The Teaching of Geography in Elementary Schools, by Richard E. Dodge and Clara B. Kirchway. R. McN. & Co. 75c.

This is one of the best books that have recently appeared and ought to be read by every teacher of geography in the elementary schools, in order to get the latest views on the teaching of this subject. Extensive references for further reading are given at the end of each chapter.

Principles and Methods of Teaching Geography, by Frederick L. Holtz. Macmillan. 90c.

This is one of the late books on the subject.

Mathematical Geography, by Willis E. Johnson. A. B. Co. \$1.00.

A very valuable reference on any topic in mathematical geography. The explanations are unusually clear and free from technical language.

EQUIPMENT FOR GRAPHIC EXPRESSION

To give children an opportunity to express facts in a graphic way is an important phase of geography. In order to do this some equipment is necessary. The few articles mentioned in this list will make a minimum working outfit to which other things may be added if time and conditions warrant the teacher in doing so.

Outline maps

(a) United States

Station Base maps, Form E. 7 in. x 10 in. Per 100..... .15

Washington Base Maps, Form C. 16 in. x 18 in. Per 100.. .60

These are blank weather maps which show the boundaries of states and the location of all cities having weather observation stations. Their low price makes them available for very general use. Send coin or money order to Chief of the Weather Bureau, Washington, D. C.

(b) Continents of the world

Desk maps, 8 in. x 10 in. Per 100..... .50

Jennings Publishing Co. Box 47, Brooklyn, N. Y.

The simplicity and lack of too much detail make these maps especially valuable.

(c) Countries of Europe and North America

Desk maps, 8 in. x 10 in. Per 100..... .50

McKinley Publishing Co., 1619 Ranstead St., Philadelphia Pa.

(d) Wall Outline Maps of the Continents; European Countries, and Groups of the United States.

Size, 32 x 44, published by the same company. Each..... .20

Coast lines, rivers, boundaries of states, and lines of longitude and latitude are printed on heavy manilla paper. In case school officials will not furnish enough ordinary wall maps the teacher can use these to locate the necessary data.

Desk outline maps are also published by many other companies: Rand, McNally & Co., Chicago; A. J. Nystrom & Co., Chicago; Wm. Beverly Harrison, Broadway, New York; McKnight and McKnight, Normal, Ill.; Chicago Uni. Press, Chicago, Ill.

United States Puzzle Map

Published by J. L. Hammett Co., 250 Devonshire St., Boston, Mass.

A printed paper map, mounted on wood, is cut on state lines. Size 12 in. x 20 in. Children learn the name and shape of the states by fitting them together.

Colored crayons

"Crayola." J. L. Hammett Co., Boston, Mass. Per doz. boxes, 72c

Indispensable for tinting maps to show surface elevations, climatic regions, products, political divisions, and many other features.

Hectograph

Material—Shallow galvanized pan, $\frac{5}{8}$ inch deep

Three oz. of best star or jello glue

One pound of glycerine

Break the glue into small bits, put them into an earthen dish and pour in just enough water to cover the glue. Let it stand 12 hours then place the dish in another vessel of boiling water. When the glue is dissolved add the glycerine. After it has boiled twenty minutes add six drops of oil of cloves or carbolic acid and pour it into the pan gently and slowly to avoid forming bubbles. Before using for the first time wipe the surface with a damp cloth, let it become nearly dry, then lay the "original copy" face down on the surface of the gelatine, rub smoothly into contact, let it stand five minutes, carefully remove it, and at once take the desired number of copies.

A printed outline map may be traced with hectograph ink or copying pencil to make the "original copy."

If the hectograph proves to be too soft or sticky, melt, return to the dish and boil it ten or fifteen minutes longer, add oil of cloves, pour back into the pan, and when it cools try it again.

Twenty-four hours after taking off a set of copies the hectograph may be used again without washing, but if it is to be used a second time immediately, it should be gently washed with a sponge and water. The glue and glycerine may be purchased at a paint store.

An excellent and inexpensive duplicator is the Daus Tip-Top Duplicator, \$5.00. Felix Daus, 111 John St., New York.

ILLUSTRATIVE MATERIAL

Pictures

The teacher and pupils should constantly be on the lookout for large, clear illustrations in magazines and advertisements. The pictures may be cut out and mounted on heavy manilla paper, or cardboard, of uniform size.

Many industrial concerns issue publications and exhibits which illustrate the raw material and processes of producing their commodity. In many instances valuable information is given about the country from which they obtain their supplies. Except in a few cases this material is sent to schools upon the payment of express charges though that is not always required.

Descriptive literature and exhibits of industries

Advertisements in the form of booklets and folders, giving interesting descriptions and beautiful illustrations may be obtained without cost from railroads and steamship lines, chambers of commerce, and real estate brokers. For a large list of such material and the places where it can be obtained see the *Journal of Geography*, Jan. 1914 and Jan. 1915. Published by R. H. Whitbeck, Madison, Wis. The Jan. 1915, issue includes 500 titles and list of 50 educational exhibits obtainable free or at small cost. This number of the magazine is still available. 15 cents.

DEATH OF WILLIAM J. SUTHERLAND

On Thursday, Dec. 9, President William J. Sutherland of the Platteville, Wis., Normal School, dropped dead in his office. President Sutherland was one of the contributing editors of this *Journal*, was president of the Wisconsin Geographical Society, and Wisconsin representative on the National Council of Geography Teachers. He was author of a widely used book on the Teaching of Geography, and joint author of *Practical Exercises in Geography*. At the time of his death he was actively occupied with plans for extending the work of the Wisconsin Geographical Society. He was a fine type of man, interested in everything that would benefit his fellowmen,—an educator whose loss will be keenly felt in Wisconsin.